

Azoty Tarnow™ Tarnamid® T-29 MCS Polyamide 6 - Colored

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

Colored medium-high viscosity grade for injection molding. Tarnamid® has the following main properties: High mechanical strength, rigidity and hardness, High impact strength, High vibration damping capacity, Good fatigue strength, Very good sliding properties, abrasion resistance, low coefficient of friction, High thermal resistance, admissible temperature of continuous operation from -60°C to +150°C, High chemical resistance, particularly to organic solvents, oils, lubricants and fuels, Considerable moisture absorption influencing mechanical and electrical properties, Self-extinguishing properties (fire retardant properties), Good electro-insulating properties, Good optical properties, relatively good transparency of molded pieces with thickness below 3.2 mm made from natural Tarnamid® (not dyed and not compounded), Can be used for the production of goods coming into contact with food (grades fulfilling requirement of European Union Directive No 2002/72/EEC) with latest amendments. Information provided by Azoty Tarnow™.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Azoty-Tarnow-Tarnamid-T-29-MCS-Polyamide-6-Colored.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ISO 1183
Water Absorption	1.8 %	1.8 %	ISO 62
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.016 cm/cm	0.016 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.018 cm/cm	0.018 in/in	ISO 294-4
Melt Flow	45 g/10 min	45 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 275 °C	@Load 11.0 lb, Temperature 527 °F	

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	75.0 MPa	10900 psi	cond.; ISO 2039-1
	@Load 36.5 kg	@Load 80.5 lb	
	140 MPa	20300 psi	dry; ISO 2039-1
	@Load 36.5 kg	@Load 80.5 lb	
Tensile Strength, Yield	45.0 MPa	6530 psi	cond.; ISO 527
	75.0 MPa	10900 psi	dry; ISO 527
Elongation at Break	50 %	50 %	dry; ISO 527
	200 %	200 %	cond.; ISO 527
Tensile Modulus	1.10 GPa	160 ksi	cond.; ISO 527

Mechanical Properties	Metric	English	Comments
Flexural Strength	28.0 MPa	4060 psi	cond.; ISO 178
	85.0 MPa	12300 psi	dry; ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179 1eU
Charpy Impact, Notched	0.450 J/cm²	2.14 ft-lb/in²	dry; ISO 179 1eA
	NB	NB	cond.; ISO 179 1eA

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	cond.; ISO 75
	60.0 °C	140 °F	dry; ISO 75
Vicat Softening Point	190 °C	374 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Glow Wire Test	750 °C	1380 °F	PN-EN-60695-2-12
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	cond.; IEC 93
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	dry; IEC 93
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	cond.; IEC 93
	1.00e+15 ohm	1.00e+15 ohm	dry; IEC 93
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 243-1
Comparative Tracking Index	600 V	600 V	IEC 112

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 290 °C	446 - 554 °F	
Mold Temperature	60.0 - 120 °C	140 - 248 °F	80 - 90°C is recommended
	75.0 - 100 °C		

Processing Properties	Metric	English	Comments
	sec	@Time 2.00 - 4.00 hour	
Moisture Content	<= 0.10 %	<= 0.10 %	
Injection Pressure	80.0 - 130 MPa	11600 - 18900 psi	80 MPa is recommended

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